

## Curriculum Vitae

### Sudan Jha

Professor in Department of Computer Science and Engineering (SCSE)

Chandigarh University,

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**Date of Birth:** 16 OCT 1975

**URL:** <http://www.jhasudan.com.np>

### Profile Summary

Enthusiastic researcher with two PhD degrees\*; 20+ years of experience in Academics with proven track record in University Administration as a Principal, prominent researcher, Software Project Developer/Manager; Currently *Professor in Computer Science and Engineering in Lovely Professional University, Jalandhar, Punjab*; *Editor-in-Chief* in International Journal of Information Communication Technology and Digital Convergence ([IJICTDC](#)); Standing on Individual Consultant of Nepal Telecom Authority (NTA - Telecom Regulatory Body of Government of Nepal); Managing Director at MindCrawl Consultancy (ICT Consultancy services);



*\*The VIVA for the Second PhD is likely to be conducted by the end of 2020 (Delayed due to COVID'19)*

### Education

- |        |              |  |
|--------|--------------|--|
| Ph. D. | January 2016 | Computer Science and Engineering, OPJS University, India<br><br>Thesis title "Performance, Evaluation and Delivering Improved QoS and Cell Throughput in UMTS based HSDPA IPv6 Networks" |
| Ph. D. | (Continuing) | (Computer Engineering) from Utkal University, Bhubaneswar, India<br><br>Final thesis submitted. (in progress) Registered in 2017   |
| M.S.   | October 2006 | (Computer Science), Nepal College of Information Technology<br><br>CGPA = 3.35 / 4.0 (1st Class with distinction)  |
| B. E.  | June 2001    | (Electronics Engineering), Motilal Nehru Regional Engineering College,   |

		University of Allahabad (MNREC, now known as MNNIT), 76.6 % (distinction)
12 <sup>th</sup>	November 1996	Intermediate in Science, St. Xavier's College, 74.6 % (distinction)
10 <sup>th</sup>	1994	School Leaving Certificate from Himalaya Vidya Mandir Boarding High School, 81.5 % (1st Class with distinction)

### Professional Experience

<b>November 01 2020 – Till date</b>	<i>Professor</i> in Department of Computer Science and Engineering, Chandigarh University, Chandigarh, Punjab, India
<b>May 01 2019 – Oct 23 2020</b>	<i>Professor</i> in School of Computer Science and Engineering at Lovely Professional University, Punjab, India (Exp. 1 Years and 5 months)  Delivering lecture classes for both UG and PG students for the subject like Computer Networks, Machine Learning, Fundamentals of Artificial Intelligence, guiding 2 PhD scholars, involved in inter university research activities, successfully guided 2 MTech. students,
<b>June 27 2016 – April 11 2019</b>	<i>Professor</i> in School of Computer Engineering at KIIT University, (Exp. 2 Years and 9 months)  Delivering lecture classes for both UG and PG students in IoT, Machine Learning, Computational Intelligence, served as a member of Board of Studies (scrutinizing the research activities), Executive Member of University equivalence and grading Committee, Mentor of 4 batches of Engineering Students, successfully coordinated M. Tech. Program, disciplinary in charge of the international hostlers. Guided 2 PhD scholars.
<b>April 22 2015 – May 30 2016</b>	<i>Team Leader and Standing on Consultant</i> - Nepal Telecom Authority (Nepal's telecommunication regulatory body). Successfully designed and executed regulatory framework for a. Mobile Virtual Network operators in Nepal and b. Migration for IPv6. (Exp. 1 Year and 1 month)
<b>Jan 22 2012 – April 15 2015</b>	Principal (Executing), Associate Professor in Computer Science – Nepal College of Information Technology (Exp. 3 Years and 3 months)  Maintaining overall academic, administrative and financial activities of the entire college, delivering lectures on Artificial Intelligence to UG students and Data Mining and warehousing to PG students, Tracked mishandled account and administrative activities, conducted first ever

international student conference in Nepal, initiated for research projects and paper publications, Supervised MTech thesis on (a) Simulation on Effect of Doppler shift in Fading channel & Imperfect Channel Estimation for OFDM in Wireless Communication, (b) Digital Divide: Exploring National and International Approaches to Bridge the Digital Divide in the perception of Developing Countries, (c) Exploring National and International Approaches to Bridge the Digital Divide in the perception of Developing Countries, likewise supervised several BTech projects

**Aug 28 2007 – Dec 24 2011**

*Associate Professor / Head of Information Technology Engineering Department, Krupajal Engineering College, Bhubaneswar, Orissa, India*

(Exp. 4 Years and 4 months)

Teaching programming in C, C++, Machine Learning, UG & PG students, more than 20 papers accepted and presented in International Conferences, conducted various activities related with educational character to meet the mission of the College, monitoring classes and faculties' teaching and research performance, secretary of 'Interview and Selection Committee', coordinated disciplinary action committee, Preparation & Delivery of Lecture and Tutorials online, design and development of Course Material in compatible with recent trends and technologies, Course Coordination, Lab Setup, Installation & Networking, Supervised 8 MTech Research Thesis, some of them are: (a) Security Enhancement of Zone Routing Protocol for Mobile Ad Hoc Networks, (b) Study on Algorithmic Development & Computational Advancement of Cryptography, (c) TCP Friendly Rate Control, analyze & throughput calculation, supervised 11 BTech projects

***Awarded as the "Best faculty award" in the year 2007 AND year 2008***

**August 1 2001 – Aug 20 2007**

*Assistant Professor and Head, Department of Computer Science and Engineering, Nepal Engineering College, Managing Director (necsoft)*

(Exp. 6 Years, 1 Month)

Teaching Electromagnetic Theory and Propagation, Programming in C & C++, Theory of Computation, Antenna & Propagation in BTech and MTech, Conducted 1st, 2nd, 3rd, 4th, and 5th International Conferences as Convener, Editors, Conducted several seminars and workshops in association with Nepal Academy Science and Technology to encourage students for innovative work and research, I was the ***first Employee to pursue Masters in Computer Science in full scholarship*** (provided by the Nepal Engineering College) on the basis of academic performance, opened various national and International level chapters, e.g. Indian Society for Technical Education (ISTE) for the first time in Nepal, Installed VSAT for the 24x7 internet service for all students and faculties throughout the college, Supervised several thesis and projects, to name a few are (a) Supervised "Computer Aided Surgery", (b) Optical Character

Recognition, (c) Image Processing and Pattern Recognition from a database of images.

As a part of interfacing with industry, Nepal Engineering College launched its own software company named as *necsoft* Pvt. Ltd. In which served as Managing Director and Project Manager and successfully accomplished a number of projects for various banks, insurance companies, and government agencies.

#### Areas of Specialization

Internet of Things, Machine Learning, Artificial Intelligence, High-Speed Downlink Packet Access Networks (HSDPA), Universal Mobile Universal Telecommunication Systems (UMTS), Cell throughput evaluation of HSDPA Networks, Fundamentals of Software Engineering, Data Mining and Warehousing

#### Research Areas/Interests

Internet of Things, Artificial Intelligence, Machine Learning (Deep Learning), Neutrosophic theory and Neutrosophic Soft Set Systems

#### Patent:

**Title of Invention:** IQS- Mobile Mesh AD-HOC Network: IMPROVED QUALITY OF SERVICE IN MOBILE MESH AD-HOC NETWORK.

**Application Number:** 202011016775

**Applicant Name:** DR. CHARU, DR. MANJU KHARI, **DR. SUDAN JHA**, AMIT BHATI, ASHISH GUPTA, DR. S. ARVIND

(Statement & Undertaking under Section 8)

#### Refereed Journal Publications

Year 2020

1. **Jha, Sudan**, et al. "Real time object detection and tracking system for video surveillance system." *Multimedia Tools and Applications* (2020): 1-16.  
(SCIE, IF = 2.313, Q2)  
[\[https://doi.org/10.1007/s11042-020-09749-x\]](https://doi.org/10.1007/s11042-020-09749-x)
2. **Jha, Sudan**, et al. "Recurrent neural network for detecting malware." *Computers & Security* 99 (2020): 102037.  
(SCIE, IF = 3.579, Q1)  
[\[https://doi.org/10.1016/j.cose.2020.102037\]](https://doi.org/10.1016/j.cose.2020.102037)
3. **Jha, Sudan**, Deepak Prashar, and Ahmed A. Elngar. "A novel approach using modified filtering algorithm (MFA) for effective completion of cloud tasks." *Journal of Intelligent & Fuzzy Systems* Preprint: 1-9.

(SCIE, IF 1.851 – Q2)

[<https://doi.org/10.3233/JIFS-189159>]

4. **Jha, Sudan**, et al. "Mitigating and Monitoring Smart City Using Internet of Things." *CMC-COMPUTERS MATERIALS & CONTINUA* 65.2 (2020): 1059-1079.  
(SCIE, IF 4.89 – Q1)  
[<https://doi.org/10.32604/cmc.2020.011754>]
5. **Jha, Sudan**, et al. "Comparative analysis of time series model and machine testing systems for crime forecasting." *NEURAL COMPUTING & APPLICATIONS* (2020).  
(SCIE, IF = 4.664, Q1)  
[<https://doi.org/10.1007/s00521-020-04998-1>]
6. **Jha, Sudan**, et al. "A Direct Data-Cluster Analysis Method Based on Neutrosophic Set Implication." *CMC-COMPUTERS MATERIALS & CONTINUA* 65.2 (2020): 1203-1220.  
(SCIE, IF = 4.89, Q1)  
[<https://doi.org/10.32604/cmc.2020.011618>]
7. Gyanendra Prasad Joshi, **Sudan Jha** (2020) "A Novel Clustering Scheme for Heterogenous Cognitive Scheme Radio Wireless Sensor Networks", *LA REVISTA INGENIERÍA SOLIDARIA*, ISSN–1900-3102,  
(ESCI)
8. D. Prashar, G. P. Joshi, **S. Jha**, E. Yang and K. C. Son, "Three-dimensional distance-error-correction-based hop localization algorithm for IoT devices," *Computers, Materials & Continua*, vol. 66, no.2, pp. 1529–1549, 2021  
(SCIE, IF = 4.89 Q1).
9. Deepak Prashar, Nishant Jha, **Sudan Jha**, Gyanendra Prasad Joshi, and Changho Seo. "Integrating IoT and Blockchain for Ensuring Road Safety: An Unconventional Approach." *Sensors* 20, no. 11 (2020): 3296.  
(SCIE 2020, IF 3.03, Q1)  
[DOI: <https://doi.org/10.3390/s20113296>]
10. Jimmy Singla, Balwinder Kaur, Deepak Prashar, **Sudan Jha**, Gyanendra Prasad Joshi, Kyungyun Park, Usman Tariq, and Changho Seo. "A Novel Fuzzy Logic-Based Medical Expert System for Diagnosis of Chronic Kidney Disease." *Mobile Information Systems* 2020 (2020).  
(SCIE 2020, IF = 4.68, Q3)  
[DOI: <https://doi.org/10.1155/2020/8887627>]
11. Krishan Arora, Ashok Kumar, Vikram Kumar Kamboj, Deepak Prashar, **Sudan Jha**, Bhanu Shrestha, and Gyanendra Prasad Joshi. "Optimization Methodologies and Testing on Standard Benchmark

Functions of Load Frequency Control for Interconnected Multi Area Power System in Smart Grids." *Mathematics* 8, no. 6 (2020): 980.

(SCIE, IF 1.105, Q1)

[DOI: <https://doi.org/10.3390/math8060980>]

12. Nikita Jindal, Jimmy Singla, Balwinder Kaur, Harsh Sadawarti, Deepak Prashar, **Sudan Jha**, Gyanendra Prasad Joshi, and Changho Seo. "Fuzzy Logic Systems for Diagnosis of Renal Cancer." *Applied Sciences* 10, no. 10 (2020): 3464.

(SCIE 2020, IF = 2.217, Q2)

[DOI: <https://doi.org/10.3390/app10103464>]

13. Deepak Prashar, Nishant Jha, **Sudan Jha**, Yongju Lee, and Gyanendra Prasad Joshi. "Blockchain-Based Traceability and Visibility for Agricultural Products: A Decentralized Way of Ensuring Food Safety in India." *Sustainability* 12, no. 8 (2020): 3497.

(SCIE 2018, IF 2.59, Q2)

[DOI: <https://doi.org/10.3390/su12083497>]

14. Aghila Rajagopal, A. Ramachandran, K. Shankar, Manju Khari, **Sudan Jha**, Yongju Lee, and Gyanendra Prasad Joshi. "Fine-tuned residual network-based features with latent variable support vector machine-based optimal scene classification model for unmanned aerial vehicles." *IEEE Access* 8 (2020): 118396-118404.

(SCIE IF 3.745, Q1)

[DOI: <https://doi.org/10.1109/ACCESS.2020.3004233>]

15. Aghila Rajagopal, Gyanendra Prasad Joshi, A. Ramachandran, R. T. Subhalakshmi, Manju Khari, **Sudan Jha**, K. Shankar, and Jinsang You. "A Deep Learning Model Based on Multi-Objective Particle Swarm Optimization for Scene Classification in Unmanned Aerial Vehicles." *IEEE Access* 8 (2020): 135383-135393.

(SCIE IF 3.745, Q1)

[DOI: <http://dx.doi.org/10.1109/ACCESS.2020.3011502>]

#### Year 2019

16. **Jha, Sudan, et al.** "Deep learning approach for software maintainability metrics prediction." *IEEE Access* 7 (2019): 61840-61855.

(SCIE, 2017 IF = 3.557).

[DOI: 10.1109/ACCESS.2019.2913349P]

17. Gyanendra Prasad Joshi, **Sudan Jha**, Seongsoo Cho, Changho Seo, Le Hoang Son, and Pham Huy Thong. "Influence of multimedia and seating location in academic engagement and grade performance of students." *Computer Applications in Engineering Education* 28, no. 2 (2020): 268-281.

(SCIE, 2018 IF = 1.435, Q2)

[DOI: <https://doi.org/10.1002/cae.22190>]

18. Vikram Puri, **Sudan Jha**, Raghvendra Kumar, Ishaani Priyadarshini, Mohamed Abdel-Basset, Mohamed Elhoseny, and Hoang Viet Long. "A hybrid artificial intelligence and internet of things model for generation of renewable resource of energy." *IEEE Access* 7 (2019): 111181-111191.  
(SCIE, IF = 3.745, Q2)  
[DOI: <https://ieeexplore.ieee.org/document/8793080>]
19. **Jha, Sudan**, et al. "Neutrosophic approach for enhancing quality of signals." *Multimedia Tools and Applications* (2019): 1-32.  
(SCIE, 2017 IF = 1.541, Q2)  
[DOI: <https://doi.org/10.1007/s11042-019-7375-0>]
20. Vu Viet Nguyen, Binh Thai Pham, Ba Thao Vu, Indra Prakash, **Sudan Jha**, Himan Shahabi, Ataollah Shirzadi et al. "Hybrid machine learning approaches for landslide susceptibility modeling." *Forests* 10, no. 2 (2019): 157.  
(SCIE, 2017 IF = 1.956)  
[DOI: <https://dx.doi.org/10.3390/f10020157>]
21. Rajiv Kapoor, Rashmi Gupta, Raghvendra Kumar, and **Sudan Jha**. "Fog removal in images using improved dark channel prior and contrast limited adaptive histogram equalization." *Multimedia Tools and Applications* 78, no. 16 (2019): 23281-23307.  
(SCIE, 2017 IF = 1.541, Q2)  
[DOI: <https://doi.org/10.1007/s11042-019-7574-8>]
22. Rajiv Kapoor, Rashmi Gupta, **Sudan Jha**, and Raghvendra Kumar. "Adaptive technique with cross correlation for lowering signal-to-noise ratio wall in sensor networks." *Wireless Personal Communications* 105, no. 3 (2019): 787-802.  
(SCIE, IF = 1.200)  
[DOI: <https://doi.org/10.1007/s11277-019-06121-7>]
23. **Sudan Jha** (2019), "Enhancing QoS using a novel task scheduling approach in Cloud Computing", *Azerbaijan Journal of High Performance Computing*, Vol 1, Issue 2, 2018, pp. 185-213  
[DOI: <http://azjhpc.org/issua2/doi.org:10.32010:26166127.2018.1.2.185.213.pdf>]
24. **Jha, Sudan**, et al. "Neutrosophic image segmentation with dice coefficients." *Measurement* 134 (2019): 762-772.  
(SCIE, IF = 2.218)  
[DOI: <https://doi.org/10.1016/j.measurement.2018.11.006>]

25. Tanupreet Sabharwal, Rashmi Gupta, Raghvendra Kumar, and **Sudan Jha**. "Recognition of surgically altered face images: an empirical analysis on recent advances." *Artificial Intelligence Review* 52, no. 2 (2019): 1009-1040.  
(SCIE, IF = 7.260, Q1)  
[DOI: <https://doi.org/10.1007/s10462-018-9660-0>]
26. Raghvendra Kumar, **Sudan Jha**, Mamta Mittal, and Lalit Mohan Goyal. "Spatial data analysis using association rule mining in distributed environments: a privacy prospect." *Spatial Information Research* 26, no. 6 (2018): 629-638.  
(ESCI)  
[DOI: <https://doi.org/10.1007/s41324-018-0207-x>]
27. **Jha, S.**, et al. "Neutrosophic soft set decision making for stock trending analysis, *Evolv. Syst.* 1–7 (2018)."  
(SCIE, IF = 2.07)  
[<https://doi.org/10.1007/s12530-018-9247-7>]

#### Year 2017

28. Nakul Pritam, Manju Khari, Le Hoang Son, Raghvendra Kumar, **Sudan Jha**, Ishaani Priyadarshini, Mohamed Abdel-Basset, Hoang Viet Long, "Assessment of Code Smell for Predicting Class Change Proneness using Machine Learning", (2019), IEEE Access, in press (SCIE, 2017 IF = 3.557)  
[DOI: <https://10.0.4.85/ACCESS.2019.2905133>]
29. Pham Hai Son, Le Hoang Son, **Sudan Jha**, Raghvendra Kumar, Jyotir Moy Chatterjee (2019), "Governing Mobile Virtual Network Operators in Developing Countries", *Utilities Policy*, Vol - 56, pp. 169 - 180 (SCIE, 2017 IF = 2.098),  
(SCIE, 2017 IF = 2.098)  
[DOI: <http://dx.doi.org/10.1016/j.jup.2019.01.003>]
30. Le Hoang Son, **Sudan Jha**, Raghvendra Kumar, Jyotir Moy Chatterjee, Manju Khari (2018), "Collaborative handshaking approaches between Internet of Computing and Internet of Things towards a Smart World: A review from 2009 – 2017", *Telecommunication Systems*, in press (SCIE, 2016 IF = 1.542, Q3 (Electrical and Electronic Engineering) - SCIMago, ISSN: 1018-4864)  
[DOI: <https://doi.org/10.1007/s11235-018-0481-x>]
31. Rajiv Kapoor, Rashmi Gupta, **Sudan Jha**, and Raghvendra Kumar. "Boosting performance of power quality event identification with KL Divergence measure and standard deviation." *Measurement* 126 (2018): 134-142.  
(SCIE, 2016 IF = 2.359)
32. Rajiv Kapoor, Rashmi Gupta, Raghavendra Kumar, and **Sudan Jha**. "New scheme for underwater acoustically wireless transmission using direct sequence code division multiple access in MIMO systems." *Wireless Networks* 25, no. 8 (2019): 4541-4553.



(SCI, 2016 IF = 1.584).

[DOI: <https://doi.org/10.1007/s11276-018-1750-z>]

33. Rajiv Kapoor, Rashmi Gupta, **Sudan Jha**, and Raghvendra Kumar. "Detection of power quality event using histogram of oriented gradients and support vector machine." *Measurement* 120 (2018): 52-75.

(SCIE, 2016 IF = 2.359) ,

[DOI = <http://dx.doi.org/10.1016/j.measurement.2018.02.008>]

34. Pradeep Kumar Mallick, Bibhu Prasad Mohanty, and **Sudan Jha**. "A novel approach using " Supervised and Unsupervised Learning" to prevent the adequacy of Intrusion Detection Systems", *International Journal of Engineering & Technology* 7, no. 3.34: 474-479.

[DOI = <http://dx.doi.org/10.14419/ijet.v7i3.34.19362>]

35. **Sudan Jha**, Anirban Dey, Raghvendra Kumar, and Virender Kumar. "A novel approach on visual question answering by parameter prediction using faster region based convolutional neural network." *IJIMAI* 5, no. 5 (2019): 30-37.

(SCIE, IF = 2.561, Q2)

[DOI = <http://dx.doi.org/10.9781/ijimai.2018.08.004>]

36. **Sudan Jha** & B. K. Ratha, "OOMT — Object oriented metric technique towards predictive & qualitative software", "An IEEE conference on International Conference on Infocom Technologies and Unmanned Systems (Trends and Future Directions) (ICTUS-2017)", 18-20 Dec. 2017, Dubai, United Arab Emirates

[SCOPUS]

[DOI: [10.1109/ICTUS.2017.8286069](https://doi.org/10.1109/ICTUS.2017.8286069)]

37. **S. Jha**, R. Kumar and M. Venkatadri, "SMART CARDS' Security Issues Crossover Combination- Exploiting the Best of the Current Generation, Mutation or Randomization," 2018 International Conference on Research in Intelligent and Computing in Engineering (RICE), San Salvador, 2018, pp. 1-6,

[SCOPUS]

[DOI: [10.1109/RICE.2018.8509037](https://doi.org/10.1109/RICE.2018.8509037)]

#### Published Edited Books, Conference Proceedings, Book Chapters

1. **Sudan Jha**, Usman Tariq, Gyanendra Prasad Joshi, Vijender K. Solanki, "Industrial Internet of Things (IIoT) - Prospects and Challenges for the next generation", CRC Press, Taylor & Francis Group, **in press**.

2. Valentina E. Balas, Le Hoang Son, Sudan Jha, Manju Khari, Raghvendra Kumar, "[Internet of Things in Biomedical Engineering](#)" Elsevier Science. ISBN: 9780128173572, Published: 15 June 2019
3. **Sudan Jha**, "[HSDPA NETWORKS – Prospects and Challenges](#)" LULU, ISBN: 9781365541476, Published: 15 December 2016
4. Asoke K Talukder, Deepak Bhattarai, Hirendra Man Pradhan, **Sudan Jha**, Sitharama Iyengar, Advances in Computer Science and Engineering, Proceedings of International Conference on "[Innovative Applications of Information Technology for the Developing World](#)", Publisher by Imperial College Press, London, UK ISBN:9781908979186, 1908979186, Published: 2 July 2007
5. Aritra Bhuiya, and **Sudan Jha**. "Industrialization of IoT and Its Impact on Biomedical Life Sciences." Intelligent Computing in Engineering. Springer, Singapore, 2020. 99-105.  
[[https://doi.org/10.1007/978-981-15-2780-7\\_13](https://doi.org/10.1007/978-981-15-2780-7_13)]
6. Sarbagya Ratna Shakya, and **Sudan Jha**. "Internet of Things Application in Life Sciences." Internet of Things in Biomedical Engineering. Academic Press, 2019. 213-233.  
[DOI: <https://doi.org/10.1016/B978-0-12-817356-5.00012-7>]
7. **Sudan Jha**, Raghvendra Kumar, Manju Khari, and Jyotirmoy Chatterjee. "[Electronic Wastage: Prospects and Challenges for the Next Generation](#)." In Handbook of e-Business Security, pp. 259-284. Auerbach Publications, 2018.
8. **Sudan Jha**, Le Hoang Son, Raghvendra Kumar, "Fading Channel and Imperfect Channel Estimation for OFDM in Wireless Communication", Pages - 557 - 582, Book Series - "Advances in Parallel Computing Ebook", Volume 29: DOI: 10.3233/978-1-61499-814-3-557, [Data Intensive Computing Applications for Big Data, IOS press, 2017](#).  
[DOI: [10.3233/978-1-61499-814-3-557](https://doi.org/10.3233/978-1-61499-814-3-557)]

### Professional Development

1. **Keynote Speaker** in "[International Conference on Information and Communication Technology and Digital Convergence Business \(ICIDB-2019\)](#)" held in Hanyang University, Seoul Campus, 04763, 222 Wangsimni-ro, Seongdong-gu, Seoul, Republic of Korea on January 16 2019 to January 19 2019.
2. **Invited Speaker**
  - a. International Teacher Education Conference ([ITEC-2017](#)), Harvard University Faculty Club in Cambridge, MA, USA, August 16-18, 2017
  - b. Veltronix, Sister Organization of NASA in the USA to give invited Speech in Robotronix.
  - c. International Aerial Robotics Competition (IARC) of NASA in the USA to give in Robotronix.
3. **General Chair** in 3rd International Conference on Cognitive Informatics & Soft Computing ([CISC-2020](#))
4. **Reviewer** in many highly indexed reputed journals (Q1, Q2)
5. **Standing Individual Consultant** of [Nepal Telecom Authority](#) (Telecom Regulatory Body of Government of Nepal), and Designed and developed regulatory frameworks on:
  - a. "Regulations of IPv6 in the context of Nepal", Completed and started for execution
  - b. "Design and Develop regulations of Mobile Virtual Network Nepal)" Completed

6. **Editor** - [IJNIET, Azerbaijan Journal of High Performance Computing](#)
7. **Editor** – Technology Transfer: Innovative Solutions in Social Sciences and Humanities <http://eu-jr.eu/ttissh/about/editorialTeamBio/58958>
8. **International Advisory Chair**, National Advisory Chair, Technical Program Committee - 6th International IEEE Conference on Reliability, Infocom Technologies & Optimization ([ICRITO'2017](#)), Amity University, Noida, India
9. **Program Committee Member** – International Conference on "Computational Intelligence and Data Engineering" ([ICCIDE – 2017](#)), Andhra Pradesh, India
10. **Executive Member of Board of Directors and Technical Advisor of Nepal Television**, Nepal's National Broadcasting Media;
11. Technology related Articles / Opinion contributor in Nepal's no. 1 daily The Kantipur and various other national dailies

### Professional Presentations (Conferences)

1. Sudan Jha, B. K. Ratha, "Analysis of Energy efficiency, throughput and packet delay for both non-persistent and p-persistent CSMA when two nodes collide", In the *Proceedings of International Conference on Information Technology (ITech-09)*, pp. 94, 4-5 March, 2009
2. Sudan Jha, Ramesh Chandra Sahoo & B. K. Ratha, "Comparison and Evaluation of Power Consumption of Routing Protocols for Wireless Sensor Network", In the *Proceedings of National Conference on Advances in Engineering Studies, NCAES-2010*, pp. 68-73, 28-30 January, 2010
3. Sudan Jha, B. K. Ratha, "Attacks on Wireless Local Area Network (WLAN), threats and Countermeasures", In the *Proceedings of UGC Sponsored National Conference on Recent Trends in Software Engineering*, pp. 28-32, 10-11 January, 2009
4. Sudan Jha, B. K. Ratha, "Thin Client Computing: Design & Implementation Issues with respect to Server Cluster Backend", In the *Proceedings of National Conference on Embedded Systems and Applications, NCESA-09*, pp.173-184, February 14, 2009
5. Sudan Jha, B. K. Ratha, "Effective and Corrective Addressing and Routing Scheme for Wireless Sensor Networks", In the *Proceedings of National Conference on Embedded Systems and Applications, NCESA-09*, pp. 44-61, 14 February, 2009
6. Sudan Jha, S.C. Mohapatra, "Bridging the Digital Divide: An impact of Higher Technical Education", International Conference on Technical Education, conducted by ISTE, Bhubaneswar. (*Proceedings yet to be received*)
7. Sudan Jha and Niranjan Mishra, "e Learning Methodologies in Engineering Education", In the *NAAC Sponsored Proceedings of National Conference on Quality Assurance in Technical Education, QAITE-2009*, pp. 125-128, 28-29 March, 2009
8. Sudan Jha, B. K. Ratha, "Dynamicity of Channel Assignment and its Relevance for GSM Networks", In the *Proceedings of National Conference on Modern Trends of Operating Systems*, pp. 71-75, 28-29 March, 2009

### Conference Management

1. <http://kasdba.org/ictdc2020/>
2. <http://www.iccisc.com/committees.html>

3. <http://kasdba.org/ictdc2019/>
4. <http://kasdba.org/ictdc2018/>
5. <http://www.allconferences.com/conferences/2005/20050807073537>
6. <https://www.worldscientific.com/worldscibooks/10.1142/p514>

### Professional Consultants

1. PROJECT HEAD (Robotics): Funded by Government of Nepal
  - a. Earthquake relief Robot that detects living and nonliving objects where people cannot reach. The Robot was successfully handed over to the Nepal Armed Police.
  - b. Bomb diffusion Robot capable to diffuse certain category of detonating bombs.
2. RESEARCH CONSULTANT & TEAM LEADER: Prepared regulatory framework for IP6 Migration in the context of Nepal for Nepal telecom authority (Status Completed)
3. RESEARCH CONSULTANT & TEAM LEADER: Prepare a regulatory framework for Mobile Virtual Network Operators for Nepal (Status Completed)
4. RESEARCH CONSULTANT & TEAM LEADER: To complete and finalize the rules and regulations with RMMM plan for all the mobile handsets' IMEI number (Status Ongoing)
5. RESEARCH CONSULTANT & TEAM LEADER: Preparation of Regulatory Framework of IPv6 migration in Nepal (Completed), funding agency Nepal Telecom Authority
6. E – Waste Management (Completed) funding agency Nepal Telecom Authority
7. Radio Communication Framework Regulations and Standardization (Completed), funding agency Nepal Telecom Authority
8. "Data Acquisition System" for Online Money Transfer Support System for "Annapurna Travel & Tours (P) LTD" on September 26, 2005 and ICFC Bank, Kathmandu, Nepal in the year 2007. (funded by ICFC bank, Kathmandu)

### Professional Associations

<b>Professional Body</b>	<b>Membership Number / ID</b>
1. Senior IEEE Member:	94141227
2. SCOPUS Author ID:	57200599175
3. ORCID ID:	<a href="https://orcid.org/0000-0003-0074-2584">https://orcid.org/0000-0003-0074-2584</a>
4. Research Gate Profile:	<a href="https://researchgate.net/profile/Sudan_Jha">researchgate.net/profile/Sudan_Jha</a>
5. Life member of AICTE-ISTE:	LM 33028 (Year 2002)
6. Member of Computer Society of India:	N0165153
7. Life member of Nepal Engineering Council:	101 Electronics 'A' Category
8. Life member of Nepal Engineers' Association:	7264

### Awards / Certifications

1. IBM certified on “Microservices Architecture And Implementation”, 2020, (CEMICI1IN, provided by IBM)
2. Certified by Edureka! as [Data Scientist with proficiency in Python](#), certified, 2017, ID: C8S51JPD
3. Awarded as the ‘Most Enthusiastic Professor’, year 2016, KIIT University, India
4. Best Faculty Award at Krupajal Engineering College for the year 2006 and 2007, India
5. “High Frequency Award” at Malviya National Institute of Technology, 2006, Jaipur, India

### Workshops / Refresher Courses / Staff Development Program conducted

1. Faculty Development Program on Data Science, 2017
2. “**Software Engineering**” Staff Development Program (MHRD/AICTE sponsored) during 24-29 December, 2008 held at Indian Institute of Technology, Kharagpur – Bhubaneswar Center India
3. “**Future Internet and Applications**” Short Term Training Program (AICTE-ISTE sponsored) during 16-20 June 2008 held at Haldia Institute of Technology, Haldia, Kolkata, W.B. India
4. “**Storage Technology Foundation**” EMC<sup>2</sup> certification for Soft Skill Training (EMC<sup>2</sup> sponsored) during 03-09 May 2008 held at Regional College of Management, Bhubaneswar, Orissa, India
5. “**Recent Trends and Applications in Information Technology**” Workshop in the years 2003, 2004, 2005 and 2006 held at Nepal Engineers’ Association sponsored, Kathmandu, Nepal
6. “Geo-Technology” Workshop organized by Ehime University, Ehime, Japan in April 2003 held at Kathmandu, Nepal
7. “**High-Frequency Communication**” Short Term Training Program during 09-21 December 2002 held at Malviya National Institute of Technology, Jaipur, Rajasthan, India
8. “**Research Methodology and Effective Training**” ISTE sponsored Training Program during 17-19 February at Nepal College of Information Technology, Lalitpur, Nepal

### Editor-in-Chief

- International Journal of Information Communication Technology and Digital Convergence ([IJICTDC](#)), ISSN 2466-0094 (Print) and ISSN 2508-2620 (Online)

### Editor in

1. International Journal of Electronics & Computer Technology/ *Vol.1, No.1 (Dec-2014), India*
2. Asian Applied Computing, Proceedings of International Conference on "Bridging the Digital Divide", *published by McGraw-Hill Publications, Noida, New Delhi, India*
3. First Asian Himalayas International Conference on Internet AH-ICI2009 - The Next Generation of Mobile, Wireless and Optical Communications Networks, published by International Journal of Ultra Wideband Communications and Systems (*IJUWBCS*), Spain
4. International Conference on Computational Intelligence in Data Mining (ICCIDM-2014), India
5. First Asian Himalayas International IEEE Conference on The Next Generation of Mobile, Wireless and Optical Communications Networks AH-ICI2009, Turkey
6. **Co-Chairman:** Seventh International Conference on Information Technology for Globalization, NaSCoIT - 2013. Nepal

### Summary of research outcomes

1. PATENT -	01
2. Books Published -	04 (One in press)
3. Edited Books -	01 (CRC)
4. Refereed Journal papers -	37 (Since last three years)
5. Total International Journals –	92
6. Total Conference Papers –	58
7. PhD Scholars Guided –	08 (2 from Nepal, 1 from Yemen, 5 from India completed)
8. PhD Scholars Guiding	04
9. Total M. Tech. Thesis Guided –	33 (Four ongoing)

### Skill Sets / Tools & Technologies:

1. Network Analysis and Design, CISCO
2. VSAT Configuration, Satellite Modem tuning, and deploying the modem configured Servers
3. Operating Systems: Windows, Linux
4. Languages: C, C++,
5. Rational Rose, UML

### References

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Director, Data Science & Cybersecurity Center (DSC2) and CWiNs Lab

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I hereby state that all the information furnished above is true to the best of my knowledge.

Yours faithfully

Sd/-

Dr. SUDAN JHA

PROFESSOR

TUESDAY, DECEMBER 22, 2020